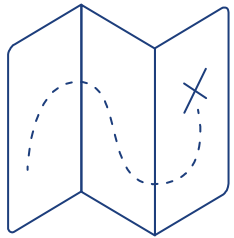




# **Tiny Tweaks:** **Small Interventions to** **Help Improve Student** **Worker Performance**

Shannon Willis, Digital Projects Lab Manager  
University of North Texas



## Context



## Digital Projects Lab at the University of North Texas

- ◎ Digitization lab
- ◎ Repositories
  - ◎ The Portal to Texas History
  - ◎ UNT Digital Library
- ◎ Lots of scanners and some cameras



## **Student Workers in Digital Projects Lab**

- ◎ Do most of digitizing
- ◎ Being the primary creator of images makes them highly valuable
- ◎ 10 to 25 imaging student assistants
- ◎ 2 librarian supervisors

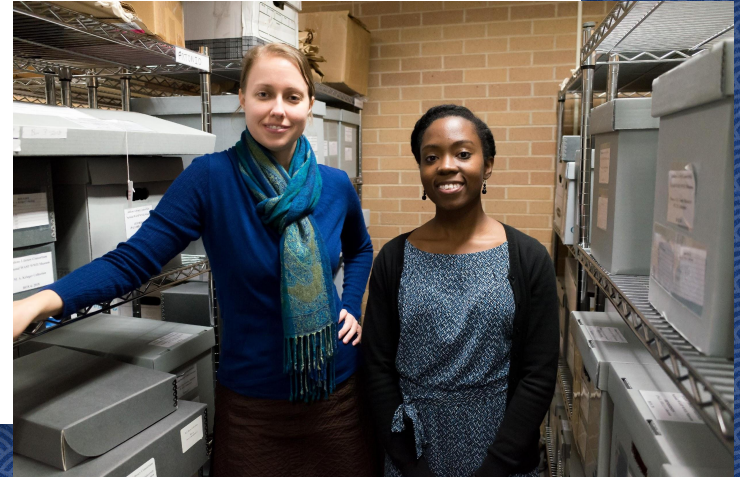


Photo by Christina Kellum, UNT



## Student Worker Caveats

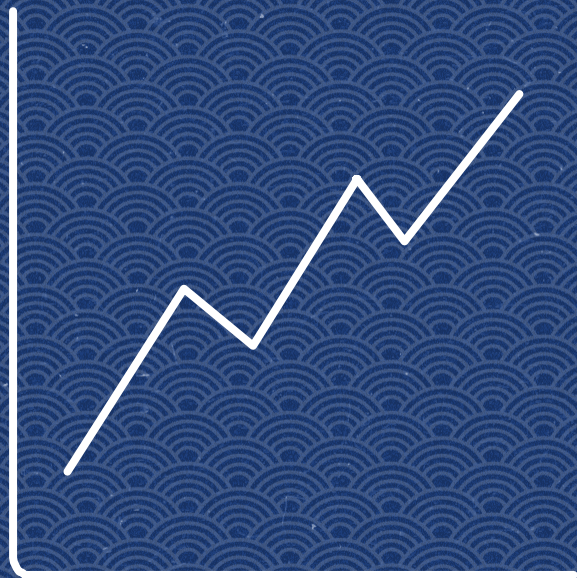
- ◎ Less work experience
- ◎ Little direct imaging experience
- ◎ Many other greater priorities
- ◎ Part-time (average 19 hours per week)



**Vs. What Our  
Student  
Assistants  
Have to Learn  
and Remember**

- ◎ 9 different capture systems
- ◎ 9 different capture software
- ◎ 4 other post-processing software programs
- ◎ 9 different categories of material types
- ◎ Common problems for each material type and capture system
- ◎ File/folder organizational structure
- ◎ 4 different file naming conventions
- ◎ General computer skills





# Small changes, big impact

With little time and effort, tiny tweaks can greatly improve student worker performance





# Categories

- Giving more information
- Documenting and reporting
- Providing more tools
- Rethinking the workflow

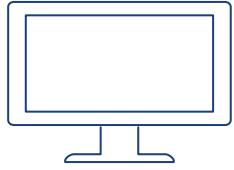




# Giving more information

And being super explicit





# Beefing up the Project Page

Restoring its glory



## A wiki Project Page

1. 042019 - Date:2019-04-09 - Sandborn Books 2018-19
2. 042019 - Date:2019-04-05 - NWTX United Methodist Summerlee Grant
3. 032019 - Date:2019-03-22 - WASP Batch 6
4. 032019 - Date:2019-03-13 - Archives 1 KXAS scrip in box 52
5. 032019 - Date:2019-03-12 - Archives Texas Stonewall Democratic Caucus Papers Box 5
6. 032019 - Date:2019-03-08 - Archives KXAS Box 6
7. 032019 - Date:2019-03-07 - Archives KXAS Box 7
8. 032019 - Date:2019-02-25 - Archives KXAS Box 5, 8
9. 022019 - Date:2019-02-22 - RTH18 Sam Rayburn House
10. 022019 - Date:2019-02-04 - Stewart Title Company 20190204 (Batch4)
11. 012019 - Date:2019-01-18 - RTH18 Lakeway Heritage Center
12. 012019 - Date:2019-01-11 - RTH18 Tarleton State University
13. 012019 - Date:2019-01-04 - Archives Tulia, Brady, and Memphis Collection (AR0915)
14. 012019 - Date:2019-01-03 - Fire Museum of Texas
15. 122018 - Date:2018-12-17 - WASP Batch 5 (201812)
16. 112018 - Date:2018-11-19 - Palacios Book 3
17. 112018 - Date:2018-11-16 - RTH18 Private Collection of Marion Marcel Salas
18. 112018 - Date:2018-11-15 - RTH18 Cathedral Church of St. Matthews
19. 112018 - Date:2018-11-05 - San Antonio PL Funeral Programs (Batch 201811)
20. 112018 - Date:2018-11-01 - Tarrant Count Black Genealogy and Historical Society, Inc.

[page](#)[discussion](#)[edit](#)[history](#)

## Caseta 18

### Contents [hide]

- 1 Project Metadata
  - 1.1 Project Info
  - 1.2 Related Project Page
  - 1.3 Attributions
  - 1.4 Dates
  - 1.5 Material Transfer
  - 1.6 Locations
  - 1.7 Contact Info
- 2 Project Description
- 3 Project Workflow
- 4 Imaging Workflow/Instructions
- 5 Metadata Workflow/Instructions

### Project Metadata [\[edit\]](#)

#### Project Info [\[edit\]](#)

##### Project Title

RTH18 CASETA

##### Collection Code

Rescuing Texas History, 2018

##### Institution Code

SG18 - Rescuing Texas History 2018

##### Institution Code

CASETA - Center for the Advancement and Study of Early Texas Art

## Information added

## Project Description

### Project Description [\[edit\]](#)

- 20 items (3 photos, 2 documents, 15 bulletins)
- 31 capacity points
- "The Emigrant Journey" is a handwritten account of the 1877 experiences of Charles Rudolph, then age 18, and his 15-year-old brother Nelson during their move from southern Illinois to northern Texas, written by Charles in 1878. It is a first-hand, primary source of information on travel to and conditions in north Texas in the late 1800s. The Flora Clarke and Leonard Bennett scrapbooks reflect the experiences of male and female college students in the 1923-1926 era at John Tarleton Agricultural College, then a small, rural two-year Texas school. Contents include photographs of the subjects, their friends and families, basketball teams, football games, military cadets on the drill field, other students, and campus scenes. Clarke's scrapbook also includes notes from friends and male admirers, and memorabilia such as a yell book, newspaper clippings, programs for events, souvenirs from parties and banquets, greeting cards and calling cards, song lyrics, and a poem Clarke wrote about the college. The Edna Wolfe 1925 "Purple Book" is a handbook given to students in that period containing the college's rules and regulations. The college's bulletins (catalogs and announcements) dated from 1921 through 1927 provide context for Bennett's, Clarke's, and Wolfe's experiences, with their photographs and descriptions of the college's history, facilities, faculty, costs, curricula, and courses. These early bulletins also include directory information (names and hometowns) of enrolled students, which is often the only evidence that a summer session student attended the college, as they do not appear in yearbooks.

## Project Workflow/Naming Instructions

### Project Workflow [\[edit\]](#)

- Naming: (folders have been pre-made in 00 to Scan)  
Folder - TSU\_ID  
Image - TSU\_ID\_01 or 02, etc. or magick number

## Imaging Workflow and What to watch out for

### Imaging Workflow/Instructions [\[edit\]](#)

1. Disbind Bulletin book
2. scan photos on EPSON
3. scan 1877 on Quartx - it is very old so handle with care
4. scan disbound documents and booklet on Copibook

### Watch Out For [\[edit\]](#)

Materials that are old and/or fragile **HANDLE WITH CARE!!** If you believe having the object lie flat or having glass pressed on it will damage it, DON'T DO IT! Mark it as too fragile for current workflow/equipment and inform staff that you have concerns about the object.

### Copibook [\[edit\]](#)

- Copibook
  - Exposure  
Make sure your image is not over exposed and the color is reasonable. The Copibook calibration profiles go bad quickly and they seem to slowly get brighter and brighter as they die. You should check the exposure with a white matte board to make sure the numbers are good before you start. But you should continue to pay attention to the documents or pages you are scanning as you work to make sure they look reasonable.
  - Glare Continued  
Watch your pages as you scan to make sure you are getting any glare on them. The lighting of the copbook can sometimes hit a bend or wrinkle in the paper and cause a bright highlight on what is otherwise a dull, matte sheet of paper. If it is doing this, lower the exposure.
  - Borders  
Make sure your images have even and reasonably sized borders. You don't need to make them super small, but resist the temptation to make them big. They should also be even on all sides of a page and from page to page within an object. The borders should be correct off the machine, no photoshopping should be needed.
  - Photographic Prints  
Absolutely **NO** "real" photos on the Copibook. A "real" photo, or photographic print, is one that has been printed on photographic paper (as opposed to printed on regular paper like you might see in a book or newspaper). If you are scanning a book, especially one that looks scrapbook-like, check it to make sure that there are not photographic prints in it before beginning. We will likely want the whole object done on a different scanner if "real" photos are included in the object.



## Common Imaging Errors

This is a list of common imaging errors and mistakes we experience in this lab.

### Contents [\[hide\]](#)

- 1 Condition
- 2 Copibook
- 3 Quartz
- 4 Fujitsu (Archival)
- 5 Transmissive Material

### Condition [\[edit\]](#)

- Fragility

Materials are old and/or fragile <<describe the condition issues seen>>. **HANDLE WITH CARE!!** If you believe having the object lie flat or having glass pressed on it will damage it, DON'T DO IT. Mark it as too fragile for current workflow/equipment and inform staff that you have concerns about the object.
- Onion paper, unbound

Onion paper, and other kinds of super thin, see-through paper, should be scanned on a white background so that the text is clearly visible and the color of the paper does not change dramatically. Scan these pages either on an Epson, or lay down a sheet of white paper on the Copibook, Quartz, or Phase One. The white sheet should be the full background of the image, NOT just the size of the object.
- Onion paper, bound

When onion paper, and other kinds of super thin, see-through paper, are found in a bound work, a white backer page should be placed behind the paper so that the text is clearly visible and pages behind it don't bleed through. The white backer page should be the same size as the paper and, as best as possible, should not show around the edges. The white back page should only be used when scanning the front side of the page; you do not need to use a white backer page when scanning the back of the page (this helps people see that it is onion skin).
- Glossy photos, especially with white borders:

When scanning on the Epson, these will often create glares on their white borders. You have to be very aware of which way you are placing the photograph so that the bar of light does not hit a curve in the paper and cause a glare. Glares can either be a bright white or yellow, or they can sometimes even be red. Pay attention when scanning both front and backs of such photos and watch for glares.
- White/light colored paper and white/light color photograph backs:

When scanning on Epson, make sure that these are not getting over exposed. Some of the Epsoms will cut in too much on the whites and you can lose the edges of the paper or photograph. If your Epson is doing this, trying opening the histogram in Epson and pulling the white arrow all the way to the right.
- Halftone and other Printed images (printed as in it clearly came off a printer and was not made on photographic paper)

These often cause moire. Pay particular attention while you are scanning. You may need to raise the resolution you are scanning at or change scanners to avoid the moire pattern (which comes in many shapes and colors but is never desired).





# Signage

Everywhere



[illegible]



# Notes on computers

## Calibrating Copibook – In Advanced Calibration

1. **Auto Focus** (with line sheet)
  - a. Markers in 4 corners and center
2. **Lighting evenness and exposure** (with white matte board)
  - a. Markers in 4 corners and center
  - b. Need to be < 245 and even across field
  - c. If not even = Auto
  - d. If over 245 = decrease exposure time
  - e. If way under 245 = increase exposure time
3. **Color** (with ColorChecker Classic target)
  - a. Markers on white and black
  - b. White = 242
  - c. Black = 54

*Watch for any weird/inconsistent colors and over exposure!*

## No “real” photos on Copibook!!!

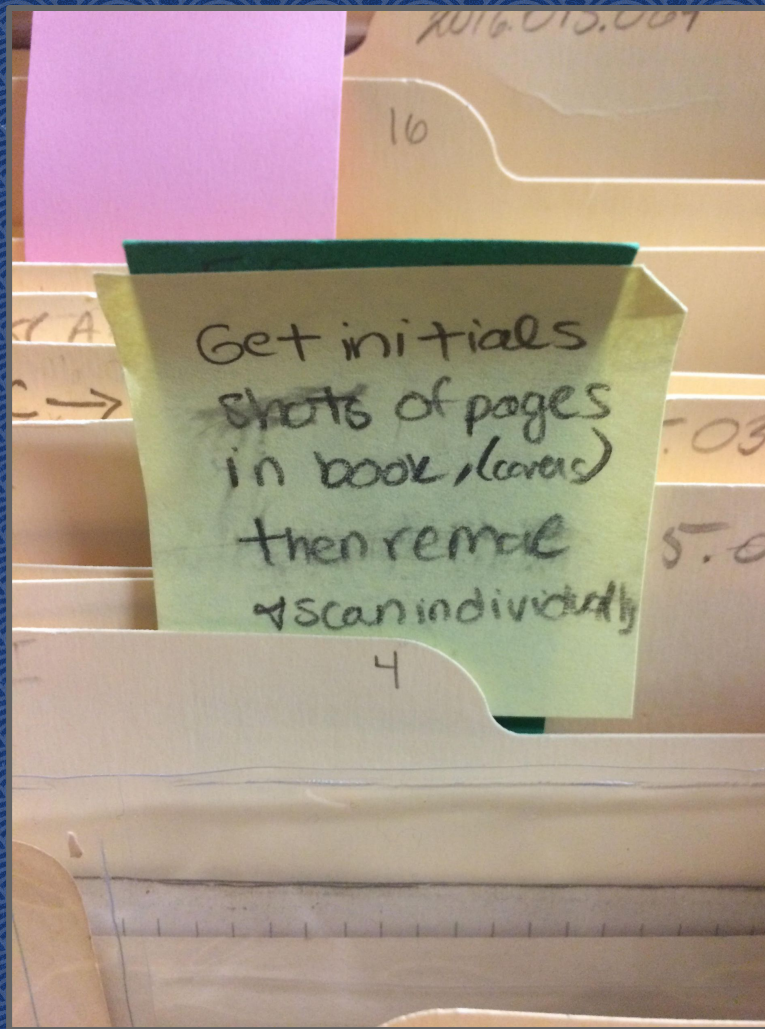
*Not even in a scrapbook!*

*Flag all photographic prints  
and objects with  
photographic prints for  
another scanner.*

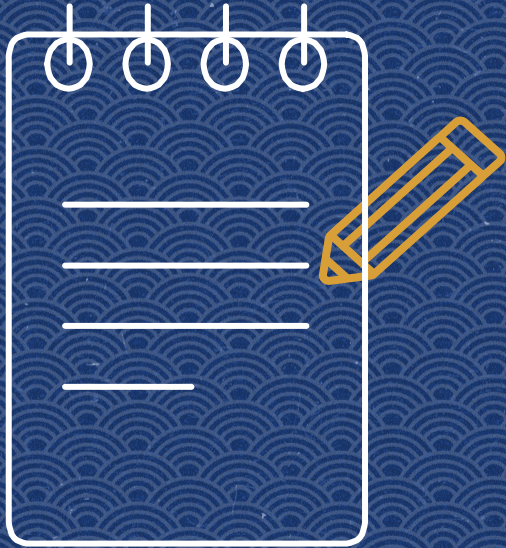
Doc = 400  
Sm. Doc = 800  
Photo = 600  
Sm. Photo = 1000



## Notes on physical items







# Documenting and reporting

All the things





# Time Reports

To ensure work attendance



**How  
attendance  
works in the  
lab**

- ◎ Student choose their own schedules
- ◎ They enter it in themselves on a spreadsheet each semester
- ◎ We expect them to work a minimum of 80% of their scheduled hours
- ◎ Less than 80% attendance two semesters in a row results in termination
- ◎ More than 95% of their scheduled hours makes them eligible for a raise



# Time Tracking

AccountofStudentTime-2019Spring.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View ACROBAT Tell me what you want to do...

Clipboard Font Alignment Number Conditional Formatting Table

E15 Prorated for half day university closure (student not scheduled for Friday)

	A	B	C	D	E	F	G	H	I
1	<b>Date</b>	<b>Hours Requested</b>	<b>Hours Worked</b>	<b>Hour Difference</b>	<b>Notes</b>				
2	Jan 19	20	20	0					
3	Jan 26	20	19.7	-0.3	Hours prorated for MLK Jr. Day.				
4	Feb 2	20	20.3	0.3					
5	Feb 9	20	20.1	0.1					
6	Feb 16	20	20.4	0.4					
7	Feb 23	20	19.7	-0.3					
8	Mar 2	20	20.3	0.3					
9	Mar 9	20	20.3	0.3					
10	Mar 16	0	23.5	23.5	Spring Break. No hours expected.				
11	Mar 23	20	19.2	-0.8					
12	Mar 30	20	20.2	0.2					
13	Apr 6	20	20.5	0.5					
14	Apr 13	20	19.8	-0.2					
15	Apr 20	20	20.6	0.6	Prorated for half day university closure (student not scheduled for Friday)				
16	Apr 27	20	20.1	0.1					
17	May 4	20	20.1	0.1					
18	May 11	0	20.3	20.3	Finals Week. Default choice not to count.				
19									
20			<b>Average hours worked each week:</b>	20.30					
21			<b>Total difference in hours requested versus hours worked:</b>	45.1					
22			<b>Attendance Percentage for the semester:</b>	115.0%					
23									
24									
25									
26									
27									

Template



**Success of  
Periodic Emails  
Throughout  
Semester**

Year before initiative:

- 8 of 21 worked all their hours.
- 4 of 21 worked at least 80%
- 9 of 21 worked insufficient hours.

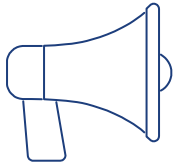
Year after initiative:

- 9 of 24 students worked all their hours.
- 12 of 24 worked at least 80%
- 3 of 24 worked insufficient hours.

This Year:

***All imaging students worked over 100% of their  
hours!***





# **Project feedback**

Quantitative and qualitative



## Quality Control Notes

FinalQC-rth16-chappell.txt - Notepad

File Edit Format View Help

Final QC, RTH16 Chappell Hill -

What I did:



Changed pages to be double-padded (we don't triple pad) or if there were 50+ images, changed them to sequence numbers, or magicknumbered them if they were paginated

Rez'ed down 11 images (3 were at 600, which is an understandable mistake, but the others were at really strange numbers, like 401 and 414. I do not know what happened, but that is strange. Seems to be mostly the rescans too.)

Took out green cast (it bothers me)

Rotated 7 pages

Deleted two duplicate pages

Notes:



In printed items, don't forget we rotate pages to make them readable.

We generally do not triple pad the page extensions. It's either double pad or sequence numbers. The rule of them I have been using is if an item has 50+ images, then I use sequence numbers over the folder-name\_01/02 convention.

What needs to be done:



A1997-1-28g: Missing pages 18 and 19

A1997-1-29-1899-1900: I do not know what happened, but 7 pages are under 400 dpi at weird numbers. Rescan.



## Student Lead Quality Control Notes

### PreQC Note Template [\[edit\]](#)

```
Pre QC Check, Name and Organization
[Project Name]
Start Date:
End Date:
Time:
[PreQC Student Initials]
-----
# Total Items, # Total TIFs
Total TIFs in Error: # ( % TIF Error Rate)
Total Items in Error: # ( % Item Error Rate)
TIFs sent back for fixes: # ( % TIF Fix Rate)
Items sent back for fixes: # ( % Item Fix Rate)
-----
ITEMS PREQC STUDENT FIXED:
Example:
Reordered 3 files
Remagicknumbered 1 item (56 files)
-----
ITEMS TO FIX BY SCANNER:
Example:
009-003: missing page 3. scan.
010-021: missed item. scan.
-----
NOTES OR COMMENTS:
```



## Tracking error and fix rates

TIFs/Items in Error = All that have been marked for fixes as well as all those that have been fixed by QC person.

Naming/Organization Error = Files and folders are named incorrectly, organized incorrectly, and/or images are not in the proper order.

Imaging Error = Any error with the actual image file, be that visual or technical

Fix Rate = all images and items sent for fixes

Fixes in Error = all images and items where the fix is something the student should have known about

Fixes not in Error = all images and items requiring fixes that the student cannot have been reasonably expected to know about

```
FinalQC-wasp-batch3box5.txt - Notepad
File Edit Format View Help
Final QC, WASP Batch 3 Box 5--
Start Date: 2018-08-06 SW
End Date: 2018-08-18
Time: 0:53(00) + 0:32(17) + 0:57(11) = 2:22(28)
-----
144 Total Items, 1,092 Total TIFs
Total TIFs in Error: 315 (28.8% Error Rate)
Total Items in Error: 24 (16.7% Error Rate)

Error Rates by TIF-
Naming/Organization TIF Errors: 261 (23.9% N/O Error Rate by TIF)
Imaging TIF Errors: 54 (4.9% Imaging Error Rate by TIF)

Error Rates by Item-
Naming/Organization Item Errors: 9 (6.25% N/O Error Rate by Item)
Imaging Item Errors: 15 (10.4% Imaging Error Rate by Item)

Total Fix Rates-
TIFs sent back for fixes: 139 (12.7% TIF Fix Rate)
Items sent back for fixes: 24 (16.7% Item Fix Rate)

Fixes in Error-
TIF fixes in error: 47 (4.3% TIF in error fix rate)
Item fixes in error: 12 (8.3% Item in error fix rate)

Fixes not in Error-
TIF fixes not in error: 92 (8.4% TIF not in error fix rate)
Item fixes not in error: 12 (8.3% Item not in error fix rate)
-----
*Denotes things I expect either the scanner or preQC student to catch
```



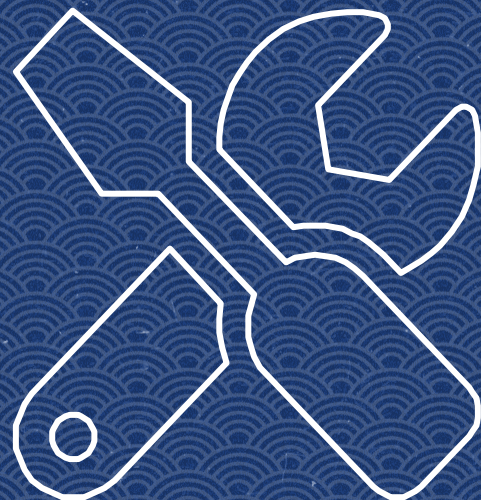
Project Information		Error Rates										Fix Rates										Resp							
Project Name	Project QC Completion Date	Consistent or Mixed	Total Items	Total TIFs	Errors by TIF						Errors by Item						Fix Rate by TIF						Fix Rate by Item						Original Scanner
					Total TIFs in Error		Naming/Organization TIF Errors		Imaging TIF Errors		Total Items in Error		Naming/Organization Item Errors		Imaging Item Errors		Total TIFs sent back for fixes		TIF fixes in error		TIF fixes NOT in error		Total Items sent back for fixes		Items fixes in error		Item fixes NOT in error		
					Num	Percent	Num	Percent	Num	Percent	Num	Percent	Num	Percent	Num	Percent	Num	Percent	Num	Percent	Num	Percent	Num	Percent	Num	Percent	Num	Percent	
Music: Weisse Knettel Kl	2/28/2019	Consistent	25	816	367	45.0%	360	44.1%	3	0.4%	13	52.0%	10	40.0%	3	12.0%	56	6.9%	0	0.0%	56	100.0%	1	4.0%	0	0.0%	1	100.0%	DM
RTH17 Cattle Raisers	2/28/2019	Consistent	264	558	67	12.0%	0	0.0%	67	12.0%	59	22.3%	0	0.0%	59	22.3%	62	11.1%	48	77.4%	14	22.6%	59	22.3%	48	81.4%	11	18.6%	ZL
DW: Linda Jebavy Mitch	3/4/2019	Mixed	652	2,971	726	24.4%	616	20.7%	110	3.7%	53	8.1%	16	2.5%	37	5.7%	91	3.1%	57	62.6%	34	37.4%	17	2.6%	5	29.4%	12	70.6%	CS ZL
Linguistics Lampkang	3/7/2019	Consistent	22	2,671	400	15.0%	0	0.0%	400	15.0%	7	31.8%	0	0.0%	7	31.8%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	KW, ZL
ALC: Jack North	3/8/2019	Mixed	2877	3,969	241	6.1%	0	0.0%	241	6.1%	146	5.1%	0	0.0%	146	5.1%	73	1.8%	73	100.0%	0	0.0%	73	2.5%	73	100.0%	0	0.0%	SB, IM, ZL
RTH17 Birdville	3/13/2019	Consistent	222	506	68	13.4%	0	0.0%	68	13.4%	34	15.3%	0	0.0%	34	15.3%	38	7.5%	22	57.9%	16	42.1%	19	8.6%	11	57.9%	8	42.1%	CS
DW: Linda Jebavy Mitch	3/14/2019	Mixed	9	65	1	1.5%	0	0.0%	1	1.5%	1	11.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	CS, ZL
Music: Sandborn 2017	3/19/2019	Consistent	2	750	5	0.7%	0	0.0%	5	0.7%	2	100.0%	0	0.0%	2	100.0%	5	0.7%	5	100.0%	0	0.0%	2	100.0%	2	100.0%	0	0.0%	MGH
RTH17 Dallas Genealogi	3/21/2019	Consistent	168	9,246	184	2.0%	36	0.4%	148	1.6%	35	20.8%	13	7.7%	22	13.1%	71	0.8%	71	100.0%	0	0.0%	3	1.8%	3	100.0%	0	0.0%	AK
RTH17: Denton Public Li	3/22/2019	Mixed	223	418	418	100.0%	418	100.0%	20	4.8%	223	100.0%	223	100.0%	16	7.2%	108	25.8%	11	10.2%	86	79.6%	106	47.5%	9	8.5%	97	91.5%	AK
RTH17: Battleship Texas	4/3/2019	Consistent	208	834	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	CS
Lockheed Supervisory Ne	4/10/2019	Consistent	1136	2,404	28	1.2%	0	0.0%	28	1.2%	17	1.5%	0	0.0%	17	1.5%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	ZL
RTH17: Panhandle Plains	4/12/2019	Consistent	201	201	6	3.0%	0	0.0%	6	3.0%	6	3.0%	0	0.0%	6	3.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	KL
Archives: KXAS Photos B	4/17/2019	Consistent	3023	3,023	4	0.1%	0	0.0%	4	0.1%	4	0.1%	0	0.0%	4	0.1%	123	4.1%	4	3.3%	119	96.7%	123	4.1%	4	3.3%	119	96.7%	SW
RTH17: Smithville Herita	4/23/2019	Consistent	542	1,854	2	0.1%	0	0.0%	2	0.1%	2	0.4%	0	0.0%	2	0.4%	49	2.6%	2	4.1%	47	95.9%	5	0.9%	2	40.0%	3	60.0%	MI
RTH17: Lena Armstrong	4/26/2019	Consistent	8	104	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	?
DW: Black Tie Collection	4/30/2019	Consistent	18	1,335	84	6.3%	1	0.1%	83	6.2%	13	72.2%	1	5.6%	12	66.7%	42	3.1%	42	100.0%	0	0.0%	3	16.7%	3	100.0%	0	0.0%	ZL
RTH17: Troop 65	5/3/2019	Mixed	35	92	3	3.3%	0	0.0%	3	3.3%	3	8.6%	0	0.0%	3	8.6%	3	3.3%	3	100.0%	0	0.0%	3	8.6%	3	100.0%	0	0.0%	KL
FCC Records v33 nos 4-1	5/6/2019	Consistent	9	5,335	956	17.9%	0	0.0%	956	17.9%	6	66.7%	0	0.0%	6	66.7%	96	1.8%	96	100.0%	0	0.0%	6	66.7%	6	100.0%	0	0.0%	Shane
RTH17 Udallas - Helen G	5/13/2019	Mixed	125	270	276	102.2%	270	100.0%	6	2.2%	128	102.4%	125	100.0%	3	2.4%	6	2.2%	6	100.0%	0	0.0%	3	2.4%	3	100.0%	0	0.0%	KL
RTH18-Tarleton State U	5/16/2019	Mixed	5	174	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	#DIV/0!	0	#DIV/0!	0	0.0%	0	#DIV/0!	0	#DIV/0!	AK



## Benefits of Statistics

- ◎ Gives feedback more power
- ◎ Supports critical feedback
- ◎ Emphasizes positive feedback
- ◎ Supervisors can see where *they* can improve
- ◎ Numbers are sombering
- ◎ Improves training and tutorials





# Providing more tools

For success





# Checklists

- o With training
- o With tasks
- o With equipment



**With tasks**

**Quality control  
checks by  
Student Leads**

page	discussion	edit	history
HowToOther PreQCImages			
Contents [hide]			
1 How to do a PreQC Full Project Check			
1.1 Before you start			
1.1.1 Instructions on Template use:			
1.1.2 Calculating Error and Fix Rates			
1.2 Bound Collection Workflow			
1.2.1 Whole Project			
1.2.1.1 1. Check folder structure and names			
1.2.1.2 2. Check that each item has been scanned			
1.2.2 For each book			
1.2.2.1 1. Check bit depths			
1.2.2.2 2. Check Resolutions and Color Mode			
1.2.2.3 3. Check Color Profiles			
1.2.2.4 4. Check that every page has been scanned and pe			
1.2.2.5 5. Check file names			
1.3 Unbound and Mixed Collection Workflow			
1.3.1 1. Check folder structure and names			
1.3.2 2. Check filenames			
1.3.3 3. Check bit depths			
1.3.4 4. Check Resolutions			
1.3.5 5. Check Color Profiles			
1.3.6 6. Check that every item has been scanned and perform visual checks			
1.4 Flagging Issues and Questions			
1.5 Final steps			
1.6 Questions to Double Check Yourself			
2 Tools/Notes			

### *Overview of Workflow*

1. Check folder structure and folder names
2. Check file names
3. Check bit depths
4. Check resolutions
5. Check color profiles
6. Check that every item has been scanned and visual checks



Project Name: \_\_\_\_\_ Initials \_\_\_\_\_

**Name and Organization PreQC Checklist: Bound Collections**

- ☐ Each item has its own folder
- ☐ Item folders are not nested (unless specified for the project)
- ☐ For scantailored items, "Originals" subfolders are present
- ☐ Item folder names match the inventory and/or identifier on item
- ☐ There are no typos or other errors in the folder names
- ☐ Each individual item has been scanned
- ☐ All pages of each individual item have been scanned
- ☐ For scantailored items, no text on the page has been cut off
- ☐ All scanned pages are in the correct order (i.e., match the order of the physical item)
- ☐ Sequence numbers, magicknumbers, or special numbering have been chosen correctly
- ☐ The magicknumbering and/or sequence numbers are correct when used
- ☐ Any special numbering file is accurate and a .txt file

Project Name: \_\_\_\_\_ Initials \_\_\_\_\_

**Name and Organization PreQC Checklist: Unbound/Mixed Collections**

- ☐ Each item has its own folder
- ☐ Item folders are not nested (unless specified for the project)
- ☐ Item folder names match the inventory and/or identifier on item
- ☐ The Partner Code Prefix is included in each item name
- ☐ There are no typos or other errors in the folder names
- ☐ Filenames match the folder names (except when magicknumbering or sequence numbers are appropriate)
- ☐ The correct naming convention has been chosen for each item
- ☐ Items that require magicknumbering or sequence numbers have been named correctly and accurately
- ☐ Each individual item has been scanned
- ☐ All sides, parts, and pages of each individual item have been scanned
- ☐ All images are in the correct order (i.e., match the order of the physical item and they follow our standards for Image Sequence)



## With equipment

## Phase One Checklists

### Checklist for Daily Shooting with Phase One

*(This assumes you already have a Session in place for your project)*

#### Starting Shift

1. Turn on mouse and log in.
2. Open your session from the Working Drive.
3. Turn on camera and wait for beep.
4. Open Shutter Control. Select Lens.
  - a. Adjust aperture to desired setting. If it is already at your desired setting, move it to a different setting and then move it back.
  - b. Set your shutter speed to your usual setting. If it is already at your usual setting, move it to a different setting and then move it back.
  - c. Make sure "ext." is un-X'ed. Minimize and click back on Capture One.
5. Make sure everything is working by taking a shot (Command+K, foot pedal, or from menu).
6. Focus camera.
  - a. Take a shot with focus targets (five one dollar bills in each corner).
  - b. Make minor adjustments as needed to ensure all five points of focus are sharp.
7. Set/adjust exposure.
  - a. Shoot the Golden Thread object level target.
  - b. Add a color readout to the image and place it over patch 13.
  - c. If the color readout number is not close to the target:
    - i. FIRST adjust shutter speed (up or down as needed).
    - ii. SECOND, make fine adjustments to the shutter speed until the numbers even closer (avoid reducing exposure below 0.2 in Capture One).

### Checklist for Daily Shooting with Phase One

*(This assumes you already have a Session in place for your project)*

#### Starting Shift

1. Turn on mouse and log in.
2. Open your session from the Working Drive.
3. Turn on camera and wait for beep.
4. Open Shutter Control. Select Lens.
  - a. Adjust aperture to desired setting. If it is already at your desired setting, move it to a different setting and then move it back.
  - b. Set your shutter speed to your usual setting. If it is already at your usual setting, move it to a different setting and then move it back.
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5. Make sure everything is working by taking a shot (Command+K, foot pedal, or from menu).
6. Focus camera.
  - a. Take a shot with focus targets (five one dollar bills in each corner).
  - b. Make minor adjustments as needed to ensure that all five points of focus are sharp.
7. Set/adjust exposure.
  - a. Shoot the Golden Thread object level target.
  - b. Add a color readout to the image and place it over patch 13.









# Command line tools

Also “Rethinking the workflow”



## A solution to file naming errors

 FRNTX\_PR-2014-005\_01.tif  
 FRNTX\_PR-2014-005\_02.tif  
 FRNTX\_PR-2014-005\_04.tif  
 FRNTX\_PR-2014-005-03.tif



```
rename_if_by_foldername.sh
1 # For each folder with tiff files
2 for f in * ; do
3   # move into the folder
4   cd "$f"
5
6   # Start a counter variable called a
7   a=1
8
9   # Loop through all .tif files in the folder
10  for i in *.tif; do
11
12    # prepare the format we want to use, right now it is the same as the folder name $f
13    new=$(printf "${f}_%02d.tif" "$a") #02 pad to length of 2
14
15    # move the file to the new name
16    mv -i -- "$i" "$new"
17
18    # increment the counter
19    let a=a+1
20
21  # close this inner loop.
22  done
23
24  # Show that we are finished with this folder
25  echo "$f renamed"
26  # Move out of the folder going one level back.
27  cd ..
28
29 # finish the script
30 done
31
```



## Rename Files [\[edit\]](#)

Digital Libraries has written a Bash program to rename all files according to their folder name. To use the program, all you have to do is call it. Using this program will allow you to rename files by their folder names (the base structure naming convention) in large batches.

To do so:


- From the command line, navigate to the directory (folder) with folders that have files you need to rename (this should be either the Scanning or Processing folder in your project)
  - Open Cygwin terminal
  - Navigate to the P drive



```
cd P:
```

cd stands for change directory


- Navigate to the appropriate workflow folder in your project folder on the P: drive. For example:



```
cd DigiProj/scanned_for_kempner/2.toProcess
```

Note: The code is expecting to find a bunch of folders in the location it is in. If you are within an item folder and it just finds files, the code will not work. This code is meant for renaming files in a batch of item folders, not for renaming files in a single item folder.

- Call the code by running this:



```
bash ../../Software/imaging-scripts/rename_tif_by_foldername.sh
```

Note: You may have to adjust your path (the `../..` part of the code) depending on how nested your project is. Each `../` part tells the computer to go a step up the folder structure. Then when you give it a name of a directory (like "Software") it starts to go down in the folder structure. So, for example, if you need it to go up more than two steps, you will need another `../` in addition to the two written above (`../../Software/imaging-scripts/rename_tif_by_foldername.sh`). If you get the path wrong, you won't break anything. You will just get an error message that the file you are trying to call is not found.

- After running the code, check the items you renamed to make sure you do not have any items that should have sequence numbers or magicknumbers instead of the base structure



[page](#)[discussion](#)[edit](#)[history](#)

# QC At The Command-Line

## Contents [\[hide\]](#)

- 1 About
- 2 Installing Cygwin
- 3 Convert files to Jpegs
- 4 Check that all directories have files
- 5 Check for empty directories
- 6 Check Image Compression
- 7 Check That Files Match Folder Names
- 8 Find Files on the Network
- 9 Make a Batch of Folders
- 10 Make a Batch of Folders from a List
- 11 Rename Files by Foldername

## 2. Check filenames [\[edit\]](#)

At this step, you want to make sure all filenames match folder names for in the project.

For projects of items that will each have only a few images per item, we use the command line to check the filenames. When you check unbound or mixed collections, remember the rule that if an item has over 50 images, it should use sequence numbers and NOT the identifier base structure.

### Procedure:

- Open Cygwin Terminal
- Navigate to the P drive

```
cd P:
```

cd stands for "change directory"

- Navigate to the PreQC folder inside the project folder you are preQC-ing

```
cd DigiProj/scanned_for_kempner/3.toPreQC
```

- Use the following code to check if the filenames match the folder names

```
for i in *; do echo -n $i ":" ; ls "$i" --ignore="Thumbs.db" | grep -v -E "^[0-9]{2}\.tif$" | wc -l ; done | grep -v ":0"
```

- Also use the following code to check for empty folders

```
for i in *; do echo -n $i ":" ; ls "$i"/*.tif | wc -l ; done | grep ":0"
```





# Rethinking the workflow

Again and again





## **Pre-making item folders**

Before a student starts work on a  
project



## Pre-made folders

### Make a Batch of Folders [\[edit\]](#)

This command lets you make of batch of folders that will all have the same stem to their name

Programs Used:








- mkdir

```
for i in {[Start number]..[Stop number]}; do mkdir [Stem of Name]-$i; done
```

Example:

```
for i in {001..045}; do mkdir TBAAL_Box153-Folder15-$i; done
```

Example Result:

	TBAAL_Box153-Folder15-001	10/2/2017 11:36 A...	File folder
	TBAAL_Box153-Folder15-002	10/2/2017 11:36 A...	File folder
	TBAAL_Box153-Folder15-003	10/2/2017 11:36 A...	File folder
	TBAAL_Box153-Folder15-004	10/2/2017 11:36 A...	File folder
	TBAAL_Box153-Folder15-005	10/2/2017 11:36 A...	File folder
	TBAAL_Box153-Folder15-006	10/2/2017 11:36 A...	File folder
	TBAAL_Box153-Folder15-007	10/2/2017 11:36 A...	File folder

### Make a Batch of Folders from a Text File of Names [\[edit\]](#)

This command lets you make of batch of folders using a text file that has the names listed on different lines

Programs Used:








- read
- mkdir

```
<[Name of your file] tr -d '\r' | while read -r l || [ -n "$l" ]; do mkdir $l; done
```

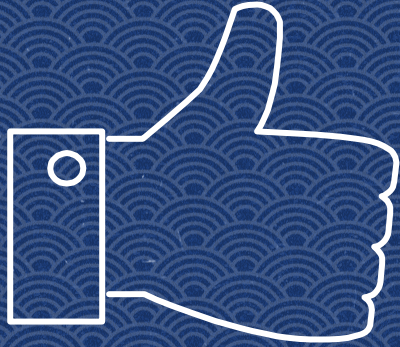
Example:

```
<ItemNames.txt tr -d '\r' | while read -r l || [ -n "$l" ]; do mkdir $l; done
```

Example Result:

Name
 1897-12
 1898-01
 1898-03
 1898-04
 1898-05
 1902-10
 1902-11





- **Documenting and reporting**
- **Rethinking the workflow**
- **Giving more information**
- **Providing more tools**





# **Not an exhaustive list**

The job is never done





**Thank you!**

**Questions?**

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